



SILKON
ADDITIVES (INDIA) PVT LTD

Superbond SG

Superbond SG is a thixotropic epoxy adhesive which is used for Bonding segmented concrete bridges / structures to speed up construction and provide a structural and water resistant joint. Can be used for pointing Stone masonry joints to retain structural integrity .

Product usages and advantages:

- Excellent bond strength
- Excellent Squeezability
- Fast Cure
- Tolerant to damp surface
- Wide range of temperature application

Specification compliance:

Superbond SG fully confirms to meets the FIP Specifications.

Description

Superbond SG thixotropic epoxy adhesive is a 2 pack solvent free epoxy resin system consisting of a off white base and black hardener in pre weighed quantities for easy onsite mixing. The product is available in three grades :

- Superbond SG20- Fast set for application between 5^oC to 20^oC
- Superbond SG30- Medium Fast set for application between 15^oC to 30^oC
- Superbond SG40- Slow set for application between 25^oC to 40^oC

Technical support

Silkon provides a technical advisory service for on-site assistance and advise on admixture selection, evaluation trials and dispensing equipment. Technical data and guidance can be provided for Superbond SG and other products.

USES:

Bonding segmented concrete bridges / structures to speed up construction and provide a structural and water resistant joint.

Properties

Colour	Base	- Off White
	Hardener	- Black
	Mixed	- Grey

Specific gravity at 30^oC

1.85 ± 0.05

Cure characteristics

	Recommended Application Temperature	Pot life (Mins.)	Open Time (Mins.)
SG20	5 ^o C-20 ^o C	30 at 20 ^o C	60 at 20 ^o C
SG30	15 ^o C-30 ^o C	30 at 30 ^o C	60 at 30 ^o C
SG40	25 ^o C-40 ^o C	30 at 40 ^o C	60 at 40 ^o C

Squeezability (FIP 5.4)

> 3000 mm²

Compressive

≥ 60N/mm²

@ 24 hours

Strength (FIP 5.6)

≥ 75N/mm²

@ 7days

Tensile bending strength (FIP 5.14)

Concrete failure

Shear

≥ 12N/mm²

Strength

Application instructions

Surface Preparation

Concrete should be mechanically sound and free from contamination, such as free water, mould, oil or grease, laitance and dust. Grit blasting is recommended. Sections to be bonded should be checked for good alignment. A 'dry run' before the first application of the adhesive is recommended to ensure correct timing.

Mixing

The base and hardener into a suitable container shall be emptied and mixed with a paddle and slow speed heavy duty drill, ensuring the sides are scraped down. A uniform grey colour should be obtained after mixing thoroughly.

Application

The mixed adhesive is applied to both surfaces to be bonded with a serrated trowel or other suitable spreader. The joint should be closed immediately, if this is not achieved the surface of the adhesive should be slightly scratched immediately prior to closing the joint to expose fresh adhesive. The joint must be closed within the open time of the adhesive. On site monitoring of the operation using lapped asbestos cement panels is recommended.

Estimating

Packaging



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Superbond AB

Storage

Shelf Life

12 months if stored below 35°C in unopened containers.

Precautions

Health and Safety

Some people are sensitive to epoxy resin system and may develop dermatitis. Direct contact with eyes will cause irritation and may cause serious damage if left untreated. Any eye contamination should be washed thoroughly with water and immediate medical attention should be sought. Gloves, barrier creams and eye protection should always be used when handling Superbond SG and.

If contact with skin occurs, a resin removing cream should be used, followed by washing with soap and water. Solvent shall not be used.

Fire

Superbond PC base and hardener are non flammable.

Flash Points :

Superbond SG
(Abel open cup)

Base 100°C

Superbond SG
(Abel open cup)

Hardener 100°C